Application Part A — Project Description, Organizational, Financial and Legal Information

A-1 Urban Water Conservation Grant Application Cover Sheet

 Applicant (Organization or affiliation): Project Title: 		RANCHO CALIFORNIA WATER DISTRICT COMMERCIAL LANDSCAPE IRRIGATION AUDIT		
3. Person authorize	d to sign and submit Name, Title Mailing address Telephone Fax E-mail	proposal: Kenneth C. Dealy, Director of 42135 Winchester Road Teme (909) 296-6900 (909) 296-6865 kend@ranchowater.com		
4. Contact person (i	if different): Name, Title Mailing address Telephone Fax E-mail			
7. Total project cost8. Estimated net wa	pledged (local cost shas is (dollar amount): hter savings (acre-fee tal amount of water to	nare) (dollar amount): et/year): o be saved (acre-feet):	\$141,000.00 \$.00 \$141,000.00 141	
	ratio of project for ap acre-feet of water to	•	1.29 \$ 430.00	
,	h/year to month/year District where the pr	c): roject is to be conducted:	<u>7/2003-6/2006</u> 66	
11. State Senate Di	strict where the proje	ect is to be conducted:	36	
12. Congressional D	District(s) where the p	project is to be conducted:	48	
14. Do the actions in	ne project is to be con n this application invo changes in land use?	olve physical changes in la	RIVERSIDE nd use, or	
(b) No			x	

A-2 Application Signature Page

By signing below, the	e official declares the following:	
The truthfulness of a	Ill representations in the application;	
The individual signing the for the applicant;	orm is authorized to submit the applica	tion on behalf of
5 5	orm read and understood the conflict ovaives any and all rights to privacy and the applicant; and	
The applicant will comply w Package if selected for fund	rith all terms and conditions identified in ding.	n this Application
•	Kenneth C Dealy, Director of O&M Name and title	 Date

A-3 Application ChecklistComplete this checklist to confirm all sections of this application package have been completed.

Part A: Project Description, Organizational, Financial and Legal Informatio
XA-1 Urban Water Conservation Grant Application Cover Sheet
XA-2 Application Signature Page
XA-3 Application Checklist
XA-4 Description of project
A-5 Maps
XA-6 Statement of work, schedule
XA-7 Monitoring and evaluation
XA-8 Qualification of applicant and cooperators
XA-9 Innovation
XA-10 Agency authority
A-11 Operation and maintenance (O&M)
Part B: Engineering and Hydrologic Feasibility (construction projects only)
B-1 Certification statement
B-2 Project reports and previous studies
B-3 Preliminary project plans and specifications
B-4 Construction inspection plan
Part C: Plan for Environmental Documentation and Permitting
C-1 CEQA/NEPA
C-2 Permits, easements, licenses, acquisitions, and certifications
C-3 Local land use plans
C-4 Applicable legal requirements
Part D: Need for Project and Community Involvement
XD-1 Need for project
XD-2 Outreach, community involvement, support, opposition
Part E: Water Use Efficiency Improvements and Other Benefits
XE-1 Water use efficiency improvements
XE-2 Other project benefits
Part F: Economic Justification, Benefits to Costs Analysis
F-1 Net water savings
F-2 Project budget and budget justification
F-3 Economic efficiency
Appendix: Benefit/Cost Analysis Tables
XTables 1; 2; 3; 4a, 4b, 4c, 4d; and 5

A-4 Description of Project

The Landscape Water Management Program as proposed will consist of audits of large landscape customers. Rancho California Water District (District) proposes to contract with the San Jacinto Basin Resource Conservation District (RCD) to perform this program. Certified auditors from the RCD will verify the total landscaped area for purposes of validating the Maximum Allowable Water Use computation, making adjustments as necessary. The irrigation system, as installed, is then compared to the architect's design and As Built plans and any discrepancies noted. The audit process involves the collection of field data, including the measurement of sprinkler head outputs, pressures, overall system uniformity and irrigation efficiencies. The auditors also check the operation of the irrigation clock and propriety of the irrigation times given season and zone being irrigated. Following the field data collection phase, a preliminary report is provided to the property owner, landscape contractor and the District. The report typically highlights maintenance and/or irrigation scheduling deficiencies that need to be corrected before the second phase of the audit can proceed. The purpose here is to assure that the system is in optimum operating condition before final measurements for irrigation scheduling purposes are completed. Phase two involves verification that needed repairs and equipment adjustments have been completed followed by uniformity testing of those landscape zones responsible for the greatest water use (usually turf). Based on the results, seasonal irrigation scheduling guidelines are prepared for each zone, which may be used for clock settings. We train the contractor to use the RCD's toll-free Irrigation Water Management Hotline for updating their clocks when conditions become unseasonable.

A-5 Maps

A-6 Statement of Work, Schedule

The Program will begin, subject to funding, in Fiscal Year 2003-04 and continue for three years. Contracts will be executed with the RCD upon approval of funding. 100 audits are planned each year.

A-7 Monitoring and Evaluation

Metered consumption will be compared to consumption history to document savings.

A-8 Qualifications of the Applicant and Cooperators

Kenneth C. Dealy, Director of Operations and Maintenance, Rancho California Water District. Oversees maintenace and operation of facilities serving 35000 water customers and 10000 sewer customers. 31 years experience in field.

A-9 Innovation

None.

A-10 Agency Authority

Address the following five questions pertaining specifically to this application.

- 1. Does the applicant (official signing A-2, Application Signature Page) have the legal authority to submit an application and to enter into a funding contract with the State? Yes
- 2. What is the legal authority under which the applicant was formed and is authorized to operate?

California Water District for as State Special District

- 3. Is the applicant required to hold an election before entering into a funding contract with the State?
 No
- 4. Will the funding agreement between the applicant and the State be subject to review and/or approval by other government agencies? If yes, identify all such agencies (e.g. Local Area Formation Commission, local governments, U.S. Forest Service, California Coastal Commission, California Department of Health Services, etc.).
 No
- 5. Is there any pending litigation that may impact the financial condition of the applicant, the operation of the water facilities, or its ability to complete the proposed project? If none is pending, so state.
 None

Application Part D- Need for Project and Community Involvement

D-1 Need for the Project

California is required to stay with its 4.4 million acre foot requirement of Colorado River supplies. The District is supplied Colorado River Water through Metropolitan Water District of Southern California.

D-2 Outreach, Community Involvement, Support, Opposition

The District has a public information system and Public Relations Specialist to interface with community groups.

Application Part E—Water Use Efficiency Improvements and Other Benefits

E-1 Water Use Efficiency Improvements

This program seeks to encourage conservation of water by Commercial landscape Systems by recommending system improvements and monitoring.

E-2 Other Project Benefits

Will reduce reliance on imported supplies.

THE TABLES ARE FORMATTED WITH FORMULAS: FILL IN THE SHADED AREAS ONLY

Table 1: Capital Costs

	Capital Cost Category	Cost Continger Percen		y Contingency	Subtotal
	(a)	(b)	(c)	(d) (bxc)	(e) (b+d)
(a)	Land Purchase/Easement			0	0
(b)	Planning/Design/Engineering			0	0
(c)	Materials/Installation			0	0
(d)	Structures			0	0
(e)	Equipment Purchases/Rentals			0	0
(f)	Environmental Mitigation/Enhancement			0	0
(g)	Construction/Administration/Overhead			0	0
(h)	Project Legal/License Fees			0	0
(i)	Other			0	0
(j)	Total (1) (a + + i)				0
(k)	Capital Recovery Factor: Use Table 6				
(I)	Annual Capital Costs (j x k)				0

⁽¹⁾ Costs must match Project Budget prepared in Section F-2.

Table 2: Annual Operations and Maintenance Costs

Administration (a)	Operations (b)	Maintenance (c)	Other (d)	Total (e)
				0

Table 3: Total Annual Costs

Annual Capital Costs (1)		
(a)	(b)	(c) (a+b)
0	0	0

⁽¹⁾ From Table 1, line (I) (2) From Table 2, column (e)

Table 4: Water Supply Benefits (2002 Dollars)

Net water savings (acre-feet/year) _

4a. Avoided Costs of Current Supply Sources

Sources of Supply	Cost of Water (\$/AF)		Annual Avoided Costs (\$)
(a)	(b)	(c)	(d) (b x c)
MWD of S. California	\$431	141	\$60,771 \$0
			\$0
			\$0 \$0
Total			\$60,771

4b. Alternative Costs of Future Supply Sources

Future Supply Sources (a)	Total Capital Costs (\$) (b)	Capital Recovery Factor (1)	Annual Capital Costs (\$) (d) (bxc)	Annual O&M Costs (\$) (e)	Total Annual Costs (\$) (f) (d+e)
			(DAC)		(u+e)
			0		
			0		
			0		
			0		
Total					0

⁽¹⁾ Use number from Capital Recovery Factor Table 6

4c. Water Supplier Revenue (Vendability)

Parties Purchasing	Amount of	Selling Price	Expected	Expected	"Option" Fee (2)	Total Selling	
Project Supplies	Water to be	(\$/AF)	Frequency of	Selling Price	(\$/AF)	Price (\$/AF)	Expected
	Sold (AF)		Sales (1) (%)	(\$/AF)			Water Sale
							Revenue (\$)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
				(cxd)		(e+f)	(b x g)
Various Customers	141	264	100.00%	264		264	37,154
300 accounts				0		0	0
				0		0	0
				0		0	0
				0		0	0
Total							37,154

Table 4d. Total Water Supply Benefits

Tubio Tai Total Water Cup	ory Borronto
(a) Annual Avoided	60,771
Costs of Current	
Supply Sources	
from 4a, column	
(d)	
(b) Annual Avoided	0
Costs of	
Alternative Future	
Supply Sources	
from 4b, column	
(f)	
(c) Annual	37,154
Expected Water	
Sale Revenue	
from 4c, column	
(h)	
(d) Total Net Annual Water	Supply Benefit (\$) (a+b+c)
	97.925

During the analysis period, what percentage of years are water sales expected to occur?
 For example, if water will only be sold half of the years, enter 50% (0.5).
 "Option" fees are paid by a contracting agency to a selling agency to maintain the right of the contracting agency to buy water whenever needed. Although the water may not be purchased every year, the fee is usually paid every year.

Table 5: Benefit/Cost Ratio

Project Benefits (\$)(1)	97,925
Project Costs (\$)(2)	0
Benefit/Cost Ratio	0.00

- (1) From Table 4d, row (d): Total Annual Water Supply Benefits
- (2) From Table 3. column (c): Total Annual Costs

Table 6: Capital Recovery Table

14510 01 0	Capital
Life of Project	
(in years)	Factor
7	0.1791
8	0.1610
9	0.1470
10	0.1359
11	0.1268
12	0.1193
13	0.1130
14	0.1076
15	0.1030
16	0.0990
17	0.0954
18	0.0924
19	0.0896
20	0.0872
21	0.0850
22	0.0830
23	0.0813
24	0.0797
25	0.0782
26 27	0.0769
28	0.0757 0.0746
29	0.0746
30	0.0736
31	0.0718
32	0.0710
33	0.0703
34	0.0696
35	0.0690
36	0.0684
37	0.0679
38	0.0674
39	0.0669
40	0.0665
41	0.0661
42	0.0657
43	0.0653
44	0.0650
45	0.0647
46	0.0644
47	0.0641
48	0.0639
49	0.0637
50	0.0634